Title (en)

Reactor system for electroporation

Title (de)

Reaktorsystem für Elektroporation

Title (fr)

Système de réacteur pour électroporation

Publication

EP 2338356 A1 20110629 (EN)

Application

EP 09015926 A 20091223

Priority

EP 09015926 A 20091223

Abstract (en)

The invention relates to a reactor system, comprising: #¢ a reactor chamber having a length and a width, whereby the reactor chamber contains a central section along its length; #¢ a first pulse generator to which two electrodes A1 and A2 are connected, whereby the electrodes A1 and A2 are located in the reactor chamber in the central section and such that they are, when measured in the length direction, at least a distance equalling half the width of the reactor chamber apart; #¢ a second pulse generator to which two electrodes B1 and B2 are connected, whereby the electrodes B1 and B2 are located in the reactor chamber in the central section and such that they are, when measured in the length direction, at least a distance equalling half the width of the reactor chamber apart.

IPC 8 full level

A23N 1/00 (2006.01); **B01J 19/08** (2006.01); **C13B 10/08** (2011.01)

CPC (source: EP US)

A23N 1/006 (2013.01 - EP US); **C13B 10/083** (2013.01 - EP US); A61N 1/327 (2013.01 - EP US)

Citation (applicant)

- DE 102004025046 A1 20051215 - KARLSRUHE FORSCHZENT [DE]
- WO 9814074 A1 19980409 - OHIO STATE RES FOUND [US]
- WO 2006108481 A1 20061019 - SUEDZUCKER AG [DE], et al

Citation (search report)

- [IY] US 2008279995 A1 20081113 - SCHULTHEISS CHRISTOPH [DE], et al
- [YD] DE 102004025046 A1 20051215 - KARLSRUHE FORSCHZENT [DE]
- [Y] WO 2006121397 A1 20061116 - SIK INST FOER LIVSMEDEL OCH BI [SE], et al
- [Y] US 2008060637 A1 20080313 - ARNOLD JOCHEN [DE], et al
- [A] US 6178880 B1 20010130 - MASTWIJK HENDRIKUS CORNELIS [NL], et al
- [A] US 2004166019 A1 20040826 - SCHULTHEISS CHRISTOPH [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2338356 A1 20110629; CA 2785486 A1 20110630; CN 102665453 A 20120912; CN 102665453 B 20160224; EA 021607 B1 20150730; EA 201290545 A1 20121130; EP 2515686 A1 20121031; EP 2515686 B1 20200212; JP 2013515464 A 20130509; JP 2016063828 A 20160428; JP 6418649 B2 20181107; PL 2515686 T3 20200907; UA 110468 C2 20160112; US 2012264187 A1 20121018; US 9340842 B2 20160517; WO 2011076393 A1 20110630

DOCDB simple family (application)

EP 09015926 A 20091223; CA 2785486 A 20101222; CN 201080058707 A 20101222; EA 201290545 A 20101222; EP 10805776 A 20101222; EP 2010007854 W 20101222; JP 2012545155 A 20101222; JP 2015242272 A 20151211; PL 10805776 T 20101222; UA A201208905 A 20101222; US 201013517948 A 20101222